## AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A process for producing powder, flakes, or pellets containing  $\alpha$ sulfo fatty acid alkylester salt in high concentrations, said process comprising:
- (1) a step of preparing a paste containing  $\alpha$ -sulfo fatty acid alkylester salt by a series of reactions of sulfonating a fatty acid alkylester with a sulfonating gas by contact with each other, esterifying the sulfonated product with a lower alcohol, neutralizing the esterified product, and bleaching the neutralized product, to give a paste containing  $\alpha$ -sulfo fatty acid alkylester salt;
  - (2) a step of <u>conducting a first</u> aging <u>of</u> the thus obtained paste, <u>wherein the</u> <u>first aging temperature is 60-90°C and the first aging time is 1-48 hours;</u>
- (3) a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water, or a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water and then crushing the resulting flakes or pellets into a powder having an average particle diameter of 100-1500 um; and
- (4) a step of <u>conducting a second</u> aging <u>of</u> the powder, flakes, or pellets, <u>wherein the</u> second aging temperature is 25-45°C and the second aging time is equal to or longer than 30 minutes.
- 2. (Original) The process as defined in claim 1, which further comprises a step of mixing the powder, flakes, or pellets with an inorganic powder having an average particle diameter of 0.1-100 μm, in an amount of 1-40 wt% of the powder, flakes, or pellets.

Application No. 10/559,999 Docket No.: 0171-1248PUS1

3. (Original) The process as defined in claim 1 or 2 wherein the fatty acid alkylester has an iodine value equal to or lower than 1.

## 4. (Cancelled)

5. (Currently Amended) The process for producing a granular detergent which comprises comprising:

mixing or granulating the powder, flakes, or pellets obtained by the process defined in elaim 1 together with a detergent component by any method selected from powder mixing, kneading crushing, and agitation granulation

- (1) a step of preparing a paste containing α-sulfo fatty acid alkylester salt by a series of reactions of sulfonating a fatty acid alkylester with a sulfonating gas by contact with each other, esterifying the sulfonated product with a lower alcohol, neutralizing the esterified product, and bleaching the neutralized product, to give a paste containing α-sulfo fatty acid alkylester salt;
- (2) a step of conducting a first aging of the thus obtained paste, wherein the first aging temperature is 60-90°C and the first aging time is 1-48 hours:
- (3) a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water, or a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water and then crushing the resulting flakes or pellets into a powder having an average particle diameter of 100-1500 μm;

Application No. 10/559,999 Docket No.: 0171-1248PUS1

(4) a step of conducting a second aging of the powder, flakes, or pellets, wherein the second aging temperature is 25-45°C and the second aging time is equal to or longer than 30 minutes; and

(5) a step of mixing or granulating the powder, flakes, or pellets obtained by the above step
(4) with a detergent component by any method selected from powder mixing, kneading-crushing, and agitation granulation.

6. (Currently Amended) The A process for producing a granular detergent which comprises comprising: mixing the powder, flakes, or pellets obtained by the process defined in elaim 1 together with a detergent component and water, to give a slurry containing 20 50 wt% of water, and spray drying the slurry.

(1) a step of preparing a paste containing  $\alpha$ -sulfo fatty acid alkylester salt by a series of reactions of sulfonating a fatty acid alkylester with a sulfonating gas by contact with each other, esterifying the sulfonated product with a lower alcohol, neutralizing the esterified product, and bleaching the neutralized product, to give a paste containing  $\alpha$ -sulfo fatty acid alkylester salt;

(2) a step of conducting a first aging of the thus obtained paste, wherein the first aging temperature is 60-90°C and the first aging time is 1-48 hours;

(3) a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water, or a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water and then crushing the resulting flakes or pellets into a powder having an average particle diameter of 100-1500 μm;

(4) a step of conducting a second aging of the powder, flakes, or pellets, wherein the second aging temperature is 25-45°C and the second aging time is equal to or longer than 30 minutes; and

(5) a step of mixing the powder, flakes, or pellets obtained by the above step (4) with a detergent component and water, to give a slurry containing 20-50 wt% of water, and spray-drying the slurry.

7. (Currently Amended) The process for producing a granular detergent which comprises mixing or granulating the granular detergent obtained by the process defined in claim 5 or 6, further comprising a step of mixing or granulating the granular detergent obtained by the process defined in claim 5 or 6 with a detergent component by any method selected from powder mixing, kneading-crushing, and agitation granulation.

## 8. (Cancelled)

- 9. (Currently Amended) The A process for producing a solid detergent which comprises mixing and kneading the powder, flakes, or pellets obtained by the process defined in claim 1 together with a detergent component, comprising:
- a step of preparing a paste containing α-sulfo fatty acid alkylester salt by a series of reactions of sulfonating a fatty acid alkylester with a sulfonating gas by contact with each other, esterifying the sulfonated product with a lower alcohol, neutralizing the esterified product, and bleaching the neutralized product, to give a paste containing α-sulfo fatty acid alkylester salt:

(2) a step of conducting a first aging of the thus obtained paste wherein the first aging temperature is 60-90°C and the first aging time is 1-48 hours;

(3) a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water, or a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water and then crushing the resulting flakes or pellets into a powder having an average particle diameter of 100-1500 μm;

(4) a step of conducting a second aging of the powder, flakes, or pellets, wherein the second aging temperature is 25-45°C and the second aging time is equal to or longer than 30 minutes; and

(5) a step of mixing and kneading the powder, flakes, or pellets obtained by the above step (4) with a detergent component, to obtain solid detergent.

- 10. (New) A process for producing a granular detergent comprising:
- (1) a step of preparing a paste containing  $\alpha$ -sulfo fatty acid alkylester salt by a series of reactions of sulfonating a fatty acid alkylester with a sulfonating gas by contact with each other, esterifying the sulfonated product with a lower alcohol, neutralizing the esterified product, and bleaching the neutralized product, to give a paste containing  $\alpha$ -sulfo fatty acid alkylester salt;
- (2) a step of conducting a first aging of the thus obtained paste, wherein the first aging temperature is 60-90°C and the first aging time is 1-48 hours;

(3) a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water, or a step of making the aged paste into flakes or pellets containing equal to or less than 10 wt% of water and then crushing the resulting flakes or pellets into a powder having an average particle diameter of 100-1500  $\mu$ m;

- (4) a step of conducting a second aging of the powder, flakes, or pellets, wherein the second aging temperature is 25-45°C and the second aging time is equal to or longer than 30 minutes; and
- (5) a step of mixing the powder, flakes, or pellets obtained by the above step (4) with detergent particles by powder mixing.
  - 11. (New) The process as defined in claim 1, wherein the second aging temperature is 30-45°C.
- 12.(New) The process as defined in claim 5, wherein the second aging temperature is 30-45°C.
  - 13. (New) The process as defined in claim 6, wherein the second aging temperature is 30-45°C.
  - 14. (New) The process as defined in claim 9, wherein the second aging temperature is  $30-45^{\circ}$ C.
- 15. (New) The process as defined in claim 10, wherein the second aging temperature is 30-45°C.
  - 16. (New) The process as defined in claim 1, wherein the second aging temperature is 30-40°C.

- 17. (New) The process as defined in claim 5, wherein the second aging temperature is 30-40°C.
- 18. (New) The process as defined in claim 1, wherein the first aging time is 2-12 hours.
- 19. (New) The process as defined in claim 5, wherein the first aging time is 2-12 hours.